

From glowbugs@theporch.com Thu Nov 7 09:49:05 1996
Return-Path: <glowbugs@theporch.com>
Received: from uro (localhost.theporch.com [127.0.0.1]) by uro.theporch.com
(8.8.2/AUX-3.1.1) with SMTP id JAA16151; Thu, 7 Nov 1996 09:41:21 -0600 (CST)
Date: Thu, 7 Nov 1996 09:41:21 -0600 (CST)
Message-Id: <199611071541.JAA16151@uro.theporch.com>
Errors-To: conard@tntech.campus.mci.net
Reply-To: glowbugs@theporch.com
Originator: glowbugs@theporch.com
Sender: glowbugs@theporch.com
Precedence: bulk
From: glowbugs@theporch.com
To: Multiple recipients of list <glowbugs@theporch.com>
Subject: GLOWBUGS digest 344
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas
X-Comment: Please send list server requests to listproc@theporch.com
Status: 0

GLOWBUGS Digest 344

Topics covered in this issue include:

- 1) Re: UY227 tube
by rdkeys@csemail.cropsci.ncsu.edu
- 2) Permission to use QST articles for glowbugging has been granted.
by rdkeys@csemail.cropsci.ncsu.edu
- 3) Re: Frequencies?
by vodall@juno.com
- 4) Should I or shouldn't I..
by tomrice@netcom.com (Tom R. Rice)
- 5) 'nother Hartley
by tomrice@netcom.com (Tom R. Rice)
- 6) WTB:TV-7D Tube Tester
by "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
- 7) What's happening? Lets make the BA/GB net happen.....
by rdkeys@csemail.cropsci.ncsu.edu
- 8) Handbooks anyone?
by Glenn Finerman <GFINDER@nms.com>
- 9) Re: regen question
by W4AOS@aol.com
- 10) 6BM8 update
by lee@radioadv.com (Lee Richey)
- 11) Re: Frequencies?
by Doug <doug@sunrise.alpinet.net>
- 12) Re: Bringing xtals *down* in freq'y
by Doug <doug@sunrise.alpinet.net>
- 13) Re: Frequencies?
by Doug <doug@sunrise.alpinet.net>

- 14) cinchjones connectors fs/trade
by "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
- 15)
by "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
- 16) Re: cinchjones connectors fs/trade SOLD
by "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
- 17) 5+ LBS of wirewound resistors fs/trade
by "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
- 18) Re: UY227, and other tubes for regen service
by rdkeys@csemail.cropsci.ncsu.edu

Date: Wed, 6 Nov 1996 11:29:48 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: sigcom@juno.com (Stephen M Smith)
Cc: rdkeys@csemail.cropsci.ncsu.edu (), glowbugs@theporch.com
Subject: Re: UY227 tube
Message-ID: <9611061629.AA110357@csemail.cropsci.ncsu.edu>

> What is a UY227? That is the tube I found whilst digging around in a
> cardboard box just filled with bottles here at the shop (work). It's a
> triode, but that's all I know. Would it make a good detector for a regen
> set? (wheels turning and gears grinding.)

Wheels and gears a' grindin' ferever fer sure.....(:+}}.....

The '227 is one of the strongest emitting triodes for receiver use made.
It has a tremendous reserve of emission that makes for a very smooth and
stable regenerative detector. It is slightly microphonic, but not all
that bad for tubes of the 20's era.

The 56 is a later equivalent, and the 76 is a modern WWII drop-in (6.3v).
The pin compatible tubes are: 2B4, 17, 27, 27S, 37, 56, 56AS, 67A, 76,
128, 128A, 338A, 484A, 485, and 885.

The '227 is the first indirectly heated triode in commercial use, and was
very popular in early AC tube sets of the late 20's. It will run on 2.5
vac or 2.5 vdc just fine in regen service. The current drain is rather
high (2.5 or 3 amps if I remember right), so it drains batteries fast.

I have a regen set I built for the '227 as a detector and audio. It is VERY
hot and very sensitive with a 10 meg ohm grid leak and a 10pf grid cap.
It is a plate tickler circuit with throttle control and variometer setting.
The audio is coupled through a 10h choke and a 0.68uf coupling capacitor.
The selectivity is such to cut the sidebands off a sideband signal, rendering
it mostly unintelligible mush (ain't it that anyway.....(:+\.....). All
that happens at 36 or 48 plate volts. It can hear anything on 80 that the

RAL can hear, and that is enough to get down to the noise.

The '224 is the equivalent tetrode that is usually paired with the '227. Most of the time the '224 is the regen detector with the '227 as the audio stage. But, I have had great luck with the '227 in both regen detector and audio service.

W6SAI/Bill Orr, published a design in 73 or CQ, about 1975 or so that used the '224 and '227 in a nice little set. There was a companion transmitter article about the same time.

73/ZUT DE NA4G/Bob UP

Date: Wed, 6 Nov 1996 11:49:53 -0500 (EST)
From: rdkeys@csemail.cropsci.ncsu.edu
To: glowbugs@theporch.com
Cc: rdkeys@csemail.cropsci.ncsu.edu ()
Subject: Permission to use QST articles for glowbugging has been granted.
Message-ID: <9611061649.AA110389@csemail.cropsci.ncsu.edu>

* Glowbuggites, please note and file for reference..... DE NA4G/Bob UP *

We have been granted permission to use QST articles in our Glowbugs work, as follows, below. Please follow the requirements for this use.

All articles so copied MUST have the following line written, inscribed, or printed on the copy, in plain view, on the first page of the reprint copy:

``Reprinted with permission from [issue date] QST.''

NOTE: [issue date] means the date of the original QST from which the copy or reprint was made, e.g., ``Reprinted with permission from March, 1929, QST'', etc. I would suggest that it be on the top above the title or as a footnote at the bottom of the page.

Forwarded message:

> From maty@arrl.org Wed Nov 6 09:23:57 1996
> Message-Id: <m0vL8T5-000f4BC@mgate.arrl.org>
> Date: Wed, 6 Nov 1996 08:54:00 -0500
> From: "Weinberg, Maty" <maty@arrl.org>
> Subject: RE: Request permission to use serveral o
> To: rdkeys <rdkeys@csemail.cropsci.ncsu.edu>
> X-Mailer: Worldtalk (NetConnex V4.00a)/MIME
>
>
> Robert,
>
> You may make copies of the article outlined below for distribution to the
> "Glowbugs." Please be sure to include the "reprinted with permission from
> [issue date] QST" line on the copies.
>
> Sincerely,
>
> Maty Weinberg
> Assistant to the Publications Manager
> -----
> >From: rdkeys
> To: lweinberg
> Cc: rdkeys; mwilson; conard
> Subject: Request permission to use serveral old QST articles
> Date: Thursday, October 31, 1996 3:22PM
> To: lweinberg@arrl.org
> Date: Thu, 31 Oct 1996 15:22:33 -0500 (EST)
> -----
> Lori Weinberg, 31 October, 1996
> Mark Wilson, Publications Manager
> American Radio Relay League,
> 225 Main Street,
> Newington, CT 06111-1494.
>
> Dear Lori and Mark:
>
> Back in 1993, I requested and was granted permission to use several
> early QST articles in a historical radio work that I was writing for
> use by interested local hams in our club's Homebrew SIG. That went
> well, and was well received. Thank you for your permission to use
> those articles.
>
> Lately, there has been some interest, amongst a group of radio history
> buffs and constructors, known as the Glowbugs, a group interested in
> learning about the history and development and practical application
> of vacuum tube electronics in amateur radio, in using some of these
> articles as a basis for building/testing/learning about early receivers
> and transmitters. This group meets via the internet as a mailing list

> of about 200 individuals. Out of these 200, perhaps some 25 or so are
> interested in actually building and testing such early equipment.
> It would be of benefit to me or them/us, collectively, to be able to use
> about half a dozen or so of the historically more important articles
> that have appeared in QST, for our building/testing/discussions on the
> topic. Of particular interest would be classic articles such as the
> John Reinartz regen receiver article in 1922, the 1928/29 articles on
> receivers and transmitters (the ``1929'' style amateur station series
> put together by the ARRL Technical Department under the able direction
> of the well known Ross Hull), several of the articles made famous by
> the other well known Technical Department staffer, George Grammer,
> in the 30's, and then one or two after the war when the last general
> use of such equipment was made, and the transition to the classic
> novice style single tube rig began. These are basically the articles
> that you granted me permission to use, previously, plus one or two other
> selections that seem appropriate.
>
> My/our(the Glowbugs) use of these articles should fall under the
> scholarly use category, as I interpret such matters. But, I feel
> that it is appropriate to obtain express permission, and credit/cite
> ``Reprinted, [issue date], courtesy QST'', as I had done earlier in
> previous works.
>
> To this end, I would like to formally request permission from the ARRL
> to make a few copies of selected early QST articles, as covered above,
> for my/our(the Glowbugs) use in our discussions/building/learning about
> early radio.
>
> Thank you for your consideration in this matter.
>
> Sincerely,
> Robert D. Keys/NA4G
> rdkeys@csemail.cropsci.ncsu.edu
>
> p.s. Two other things that might be of interest to other amateur radio
> operators..... 1) a short note in QST about the Glowbugs, and
> how interested members of the amateur community may join in on
> our discussions and on-the-air nets, and 2) the articles that I
> put together back in 1993 are in electronic PostScript format which
> might be worth archiving in the ARRL's on-line archives somewhere,
> if interested (I would be happy to forward copies via email if
> so interested)(perhaps other such historical reprints could be
> put there, too).
>
> cc C.F. Murray/WS4S conard@tntech.campus.mci.net
> (listowner of glowbugs@theporch.com)
> cc Glowbugs mailing list (glowbugs@theporch.com)
>

> Note: The Glowbugs mailing list information can be obtained from
> the listowner, C.F. Murray/WS4S, conard@tntech.campus.mci.net,
> via email.
>
>

Date: Wed, 6 Nov 1996 10:00:56 MST
From: vodall@juno.com
To: glowbugs@theporch.com
Subject: Re: Frequencies?
Message-ID: <19961106.102438.8527.0.vodall@juno.com>

>
>On 5 Nov 96, Doug wrote:
>
>> Hi Folks...I'm new to the list...was just curious which, if any
>> freqs have become hangouts for the Glowbug rigs? I'm a past builder
>> of the type of rig that seems to be popular here...34 years ago they
>> were the only way I could afford to be on the air. My best rig was
>> a 6AG7/pair 1625 setup that ran for many years, although I've built
>> them from 6V6, 6L6, 6J6 and 6AW8's...allways a blast.
>>
>> Have fun and keep up the interesting posts.
>>
>> Doug Dunn, K7YD
>> Livingston, MT
>>

On Tue, 5 Nov 1996 23:04:22 -0600 (CST) "Brian Carling"
<bry@mail1.mnsinc.com> writes:
>HEY! It's a reply from AF4K!
>
>Welcome to the list Doug! Tell us more about your past building and
>operating experiences!

Oh oh... Don't encourage Doug too much. He's got LOTS of good
stories of past projects. The mega-bytes of K7YD folders in
my Mail directory will attest to that.

>See you on 3579 and 7050 kHz soon!

Are those the official "glowbug" frequencies?

>Bry

Bill - WA7NWP
Kevin, Montana

250 miles north of Doug's QTH, but I've been in on a couple
"Livingston Saturday Nights" where Glowbug's of a different
sort were in action...

Date: Wed, 6 Nov 1996 10:18:50 -0800 (PST)
From: tomrice@netcom.com (Tom R. Rice)
To: glowbugs@theporch.com (glowbugs)
Subject: Should I or shouldn't I..
Message-ID: <199611061818.KAA29697@netcom10.netcom.com>

>
> I have a dilemma here. I want to start another small tube xmtr project,
> and I have just come across an old audio amplifier chassis that would be
> a terrific headstart towards that end.

etc.

I've been collecting tube-tye PA amps for some time,
feeling that they are easily convertible into modulators,
so I'd say that you oughtta build the xmtr from scratch,
unless you're severely parts-impaired.

73 de WB6BYH

--
"Start off every day with a smile and get it over with." --W.C.Fields
Tom R. Rice
tomrice@netcom.com
CIS: 71160,1122

Date: Wed, 6 Nov 1996 10:24:00 -0800 (PST)
From: tomrice@netcom.com (Tom R. Rice)
To: glowbugs@theporch.com (glowbugs)
Subject: 'nother Hartley
Message-ID: <199611061824.KAA00484@netcom10.netcom.com>

I've run across a circuit for a "cross-coupled" Hartley
using two type 45 tubes. The glass audio folks will

doubtless cringe, but I've got the tubes and need only to come up with a suitable power supply, so I expect to try this out later in the year.

Anyone here have any experience with this circuit? It comes from a Bill Orr article in a CQ of the Seventies.

tnx de WB6BYH

--

"Start off every day with a smile and get it over with." --W.C.Fields

Tom R. Rice

tomrice@netcom.com

CIS: 71160,1122

Date: Wed, 6 Nov 1996 12:20:48 -0700 (MST)

From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>

To: Glowbugs <glowbugs@theporch.com>

Subject: WTB:TV-7D Tube Tester

Message-ID: <Pine.SV4.3.91.961106121643.21866A-100000@mesa5.mesa.colorado.edu>

I am looking for a TV-7D tube tester in very good to excellent operating condition and cosmetic appearance.

Jim Rybak W0KSD

Date: Wed, 6 Nov 1996 15:01:19 -0500 (EST)

From: rdkeys@csemail.cropsci.ncsu.edu

To: glowbugs@theporch.com

Cc: rdkeys@csemail.cropsci.ncsu.edu (), boatanchors@theporch.com,

Subject: What's happening? Lets make the BA/GB net happen.....

Message-ID: <9611062001.AA110527@csemail.cropsci.ncsu.edu>

For the BA/GB Net for the rest of the week, let us try:

7050.0 khz @ 0000Z

3579.5 khz @ 0100Z

1802.5 khz @ 0200Z

Any takers? Some of us olden pfartes needs an earlier break.....(:+\.....

Surely there is a firebottle or two that needs some careful stokin' an' ether burnin' ta keeps their glow bright.....(:+}}.....

73/ZUT DE NA4G/Bob UP

Date: Wed, 06 Nov 1996 14:40:12 -0500
From: Glenn Finerman <GFINER@nms.com>
To: glowbugs@theporch.com
Subject: Handbooks anyone?
Message-ID: <s280a36f.040@nms.com>

Hello to all Glowbug members! This is my first post to this very interesting list. My interests in Glowbugs are centered around homebrewing transmitters like the ones detailed in the ARRL handbooks of the 1950's. That's where my request comes in. Does anyone have an ARRL handbook from the 1950's (except 1956) they would be willing to sell? I'm trying to collect all the tube transmitter circuits from that period and copy them into my own personal "Glowbugs Cookbook". The handbooks don't need to be in good condition (covers torn off, etc..) If I can't buy them, maybe I could borrow them in exchange for a copy of the cookbook when it's finished.

What do you think Glowbuggers?

73.....Glenn N2BJG gfiner@nms.com

Date: Wed, 6 Nov 1996 17:25:31 -0500
From: W4AOS@aol.com
To: broehrig@admin.aurora.edu
Subject: Re: regen question
Message-ID: <961106172530_1316107357@emout17.mail.aol.com>

In a message dated 96-11-04 21:39:09 EST, you write:

<< My thoughts exactly, after looking at the circuit again, but not so. >>

Well Bob on other thing I can think of is coupling through the power supply impedance. You might try a bypass capacitor with low reactance at the spurious oscillation frequency right at the tube from B+ to ground. Not likely, but easy to try and in difficult cases do all the easy things first.

Something else I was wondering about is some sort of "squegging" oscillation similar to what is used in a self quenched superregenerative rx. These oscillations are induced by a large time constant associated with the grid circuit of the oscillator, if you have a large grid resistor or capacitor or both in the grid circuit that could be the problem.

Good luck and keep me posted.

73 Bob w4aos@aol.com

Date: Wed, 6 Nov 1996 21:33:14 -0500
From: lee@radioadv.com (Lee Richey)
To: <glowbugs@theporch.com>
Subject: 6BM8 update
Message-ID: <19961107023448977.AAA213@lee.radioadv.com>

Additional testing yields some interesting results.

As indicated in my last post, the power supply voltage is a little lower than expected. The screen resistor was calculated to be about 20K, using 325 volts. Since my voltage drops to about 260, it turns out that the screen voltage is only 100 volts key down. Think I, reduce the screen resistor a little to get the screen voltage back up to the 200 volt region, hence increasing input (and of course output).

Well, the screen voltage increase did indeed increase plate input, roughly 50% I'd say. But the output hardly increased at all. Probably less than 20%, from a little over 5 watts out to a little under 6 watts. Hmm, what's happening here? Any guesses. Yes I did retune the pi-net output. It has a broad range and I can go all over the place in impedance matching but cannot get more than 6 watts out even though the input went from about 8 watts in to over 12 watts in.

Anyway, I put the 20K back in place and now have over 5 watts out with about 8 watts in giving around 62% efficiency.

Next installment I'll tell you about the differential keying.
Found some interesting stuff there too.

-Lee- -WA3FIY-

<http://www.radioadv.com>

Date: Wed, 06 Nov 1996 19:57:58 -0700
From: Doug <doug@sunrise.alpinet.net>
To: glowbugs@theporch.com
Subject: Re: Frequencies?
Message-ID: <32815036.69BC@alpinet.net>

BERGESON@PPCC.CCCOES.EDU wrote:

>
> Doug:
>
> I'd be interested in a copy of the circuit for your 6AG7/1625 rig
> if you plan to publish it, or if you can refer me to where its
> already published.
>
> 73, Hal W0MXY Colorado Springs, CO
HI Hal...thanks for the note. The old 6AG7/1625 rig and all the prints
went the way of many other oldies...hit the scrap heap about 20 years
in the past. I can recreate it...just have to do the math again and
work out the networks...no big deal. But, it ran a nice, solid 100
watts with 700v on the plates, 250 on the oscillator. I built this
one into an old ARC-5 transmitter chassis, used the roller inductor
in place and built in a pi-net output...And..all the sockets I needed
were there.

So, when thing get rolling here, I'll put it back together if there is
interest in that sort of thing.

Take care...

Doug Dunn, K7YD
Livingston, MT

Date: Wed, 06 Nov 1996 20:12:55 -0700
From: Doug <doug@sunrise.alpinet.net>
To: glowbugs@theporch.com
Subject: Re: Bringing xtals *down* in freq'y
Message-ID: <328153B7.5D08@alpinet.net>

Jeffrey Herman wrote:

>

> I've got a bunch of mil xtals marked for 7600 kc and am wondering
> what the possibility is of bringing them down to 40m. Has anyone
> ever had success in dropping xtals 600 kc? Am I trying to bend the
> universe?

>

> 73 from very wet Hawaii,
> Jeff KH2PZ

Hi Jeff...this is an old trick, but it worked for me with FT243 types from the old "Crystal Kits" from WWII. The "Old Guys" when I was a kid used to rub soft pencil lead on the blank...both sides. It really did bring the freq down, more lead (over more area), more change. I cant say for sure it's gonna move one 600kc, that's a bunch for an old fundamental type rock. Use a good, clean piece of glass to work on...keep the fingers off the blank as much as possible. Rub the pencil lead on evenly with a small, camel's hair brush...contaminating the blank as little as possible. Get it on as evenly as you can, put it back into the holder and give it a try...I wish you good luck.

Another way is to deposit some solder on the blank's edges...but I'm not sure I'd have the guts to heat a piece of quartz.

It's much easier to move them up...grind away.

Good luck and have fun...

Doug Dunn, K7YD
Livingston, MT

Date: Wed, 06 Nov 1996 20:23:25 -0700
From: Doug <doug@sunrise.alpinet.net>
To: glowbugs@theporch.com
Subject: Re: Frequencies?
Message-ID: <3281562D.5D29@alpinet.net>

Brian Carling wrote:

>

> HEY! It's a reply from AF4K!

>

> Welcome to the list Doug! Tell us more about your past building and
> operating experiences!

>

> See you on 3579 and 7050 kHz soon!

>

> Bry
>
> On 5 Nov 96, Doug wrote:
>
> > Hi Folks...I'm new to the list...was just curious which, if any
> > freqs have become hangouts for the Glowbug rigs? I'm a past builder
> > of the type of rig that seems to be popular here...34 years ago they
> > were the only way I could afford to be on the air. My best rig was
> > a 6AG7/pair 1625 setup that ran for many years, although I've built
> > them from 6V6, 6L6, 6J6 and 6AW8's...allways a blast.
> >
> > Have fun and keep up the interesting posts.
> >
> > Doug Dunn, K7YD
> > Livingston, MT
> >
> *****
> *** 73 from Radio AF4K / G3XLQ in Gaithersburg, MD USA *
> ** E-mail to: bry@mnsinc.com *
> *** See the great ham radio resources at: *
> ** <http://www.mnsinc.com/bry/> *
> *****
HI Bry...thanks for the info...color crystals...a great idea! I'll
dig out something for an RF generator and get up on the air...mite
even fire up the QRP rig and listen anyhow.

It's hard to explain my starts...typical kid Ham...all fire and NO Bux!
So, the "Glowbug" approach was not just for fun, but was the only way
to the "Ether" for me. I started with a 6V6 rig...built from the '50
ARRL HB...worked like a champ...on 40, 20 and 10!!! All at the same
time. Fortunatly for me, a friendly grey haired old W7 got me by the
ear and we learned the virtues of METAL housings, and of course how to
build a resonant antenna that worked. So, my early building was off
and running...'found out I can make almost ANY tube oscillate...some
well, some, well...not so good. This went on for some years 'til I
got my hands on an ART13...real Collins!!! and off I went again....
Yes...I've still got one.

I cut my teeth on Morse, and am still active with it...easier and
cheaper to build rigs for it.

So...'guess that's it...watch out for NWP...He's a "Glowbugger" in
Digital Geek's clothes.

73's...have a blast

Doug Dunn, K7YD
Livingston, MT

Date: Thu, 7 Nov 1996 08:20:49 -0500
From: "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
To: boatanchors@theporch.com
Cc: glowbugs@theporch.com
Subject: cinchjones connectors fs/trade
Message-ID: <2.2.16.19961107082321.239f78ec@fvmail.com>

30 misc used small connectors various configurations
18 misc used large connectors various configurations

anybody want these for \$18 shipped?

=====]-[->

Robert Fowle KC8DBC
The HAMMARLUND Historian
Ph. 517-789-6721
1215 Winifred
Jackson, Mich. 49202-1946
E-mail: hammarlund@jacksonmi.com
Web Page: <http://www.jacksonmi.com/hammarlund>

HAMMARLUND LITERATURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

=====]-[->

Boatanchors: the list: listproc@theporch.com.....subscribe boatanchors
<your name>

the news group: rec.radio.amateur.boatanchors

new group: ham-am@Listserv@ucsd.edu....Body: add ham-am

ME AND MY WIFE:

between the two of us, we know everything, what i don't know, my wife does,
and what she don't know, won't hurt her...8-) sssssh!

Date: Thu, 7 Nov 1996 09:19:59 -0500
From: "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
To: boatanchors@theporch.com
Message-ID: <2.2.16.19961107092232.239f0f7a@fvmail.com>

all below prices include shipping
anybody interested?

1 BAG OF 20 NEW CAP'S (made in USA) @ 1200 MFD, 75 VDC \$18.00

RELAYS 34 total

NEW IN BOX MIL. SPEC. # MK 1007, 12 VDC , 120 OHMS, DPDT \$2 EA. + or
all for \$40 shipped

ROLA HEADSET ADAPTERS - FOR HEADSETS HS-33 OR HS-38
HIGH TO LOW IMP. MC-385-A & MC-385-C \$8 PR.

=====]-[->

Robert Fowle KC8DBC
The HAMMARLUND Historian
Ph. 517-789-6721
1215 Winifred
Jackson, Mich. 49202-1946
E-mail: hammarlund@jacksonmi.com
Web Page: <http://www.jacksonmi.com/hammarlund>

HAMMARLUND LITERATURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

=====]-[->

Boatanchors: the list: listproc@theporch.com.....subscribe boatanchors
<your name>

the news group: rec.radio.amateur.boatanchors

new group: ham-am@Listserv@ucsd.edu....Body: add ham-am

ME AND MY WIFE:

between the two of us, we know everything, what i don't know, my wife does,
and what she don't know, won't hurt her...8-) ssssssh!

Date: Thu, 7 Nov 1996 09:29:37 -0500
From: "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>
To: boatanchors@theporch.com
Subject: Re: cinchjones connectors fs/trade SOLD
Message-ID: <2.2.16.19961107093210.239ff7a4@fvmail.com>

Re: cinchjones connectors fs/trade SOLD

=====]-[->

Robert Fowle KC8DBC
The HAMMARLUND Historian
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HAMMARLUND LITERATURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

=====]-[->

Boatanchors: the list: listproc@theporch.com.....subscribe boatanchors

<your name>

the news group: rec.radio.amateur.boatanchors

new group: ham-am@Listserv@ucsd.edu....Body: add ham-am

ME AND MY WIFE:

between the two of us, we know everything, what i don't know, my wife does,
and what she don't know, won't hurt her...8-) ssssssh!

Date: Thu, 7 Nov 1996 09:34:04 -0500

From: "Robert Fowle (KC8DBC)" <hammarlund@jacksonmi.com>

To: boatanchors@theporch.com

Subject: 5+ LBS of wirewound resistors fs/trade

Message-ID: <2.2.16.19961107093637.099f64c4@fvmail.com>

have approx 5 + pounds of wire wound, ceramic type resistors fs/trade
various sizes and wattages
all for \$30 shipped
anybody interested?

=====]-[->

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Date: Thu, 7 Nov 1996 10:55:57 -0500 (EST)

From: rdkeys@csemail.cropsci.ncsu.edu

To: glowbugs@theporch.com

Cc: rdkeys@csemail.cropsci.ncsu.edu ()

Subject: Re: UY227, and other tubes for regen service
Message-ID: <9611071555.AA110732@csemail.cropsci.ncsu.edu>

> I'm getting ready to build my first firebottle regen and have been following
> your postings of advice. I've built a couple of regens using sand-state
> MPF-102's just because they're easier to handle for breadboarding. Please
> don't make this public info. I'm ready to make the plunge to firebottles and
> am wondering what tube to use as a detector.

Excellent! Go for it, and enjoy!

Since you raise some questions that would be of interest to others, I
will toss it out for general consumption, but let you remain anonymous.

Don't worry about having played with them thar non-self-heating things.
Folks around here won't mind. Hey, for that matter, even I have played
with them thar plastic thingies, now an' again. But they jus' don't
glow enuf fer me.....(:+}}.... The problem with sandbox thingies is that
they don't seem to regenerate properly in my hands. I don't ever seem to
have good luck with them as regen detectors due to extreme sensitivity to
overloading with every type of fet I have tried (everything I could get
my hands upon over the years). Tubes work better in every case, for me.
I was thinking about getting one of the TenTec regens for testing, just
for comparisons. Anyone seen/used one of them? In theory, an fet
should work, and does in my hands, but they just don't seem to work
'right'. Maybe I am doing it wrong. The biasing may be part of the
problem. I have not tried fets on low value grid leaks (10K -100K ohm)
to reduce the overloading problem. I have not tried extreme uncoupling
to minimize overloading, either. Both of those might help.

What I have done, for comparative play, is to make up a socket using a tube
base and wire in a jfet or other fet. Then, just adjust voltages to suit
the plastic thingie appropriately, and plug and play. For me, the plastic
thingies just don't work as well, but, I am open to any comparative
discussions in private email, or if enough public glowbug interest was
there, in open forum. After all, we need to know why our golden glowbottles
are better than them thar sandthingies, and have some comparative info to
back us up, right?

It must be that them thar plastic thingies have lost their smoke.....(:+}}...

> I'm interested to know if a 56 will perform as well as a 227 for a detector?
>
> >The 56 is a later equivalent, and the 76 is a modern WWII drop-in (6.3v).
> >The pin compatible tubes are: 2B4, 17, 27, 27S, 37, 56, 56AS, 67A, 76,
> >128, 128A, 338A, 484A, 485, and 885.

The 56 was a later replacement for the '27 as I understand it. They should

be pretty much identical. The 76 is likewise pretty much identical, but a 6.3 volt filament rather than a 2.5 volt filament.

The 56 should perform identically to the '27 in most services.

The 37 is another one that should drop in and play, but I don't remember offhand what its filament voltage is.

I have not tried any of the exotic numbers, listed above, although I am curious as to what the 2B4 is. Maybe that is a post-war last-gasp of the basic 5 pin triode design, or some sort of power triode akin to the 2A3 or 6B4. Anyone know? I need to keep a tube book handy next to the ol' glass boob toob, here, it seems.

Out of all of them that use the 5 pin socket, the 76 is probably the most commonly available, since they were used in all of the LM series of WWII frequency meters, among other things, and the Navy had tons of them.

The '27 is the most classic of the lot, for aesthetics sake, but use what you can find. For that matter, the common 6J5 will work just fine in the same circuits, although it uses an octal socket (you can use a breadboard relay socket from any electronics parts house --- very common although they cost about 5 bucks each) and requires 6.3 vac/vdc on the filament.

The 6SN7 (a very common octal tube) will sub fine, and you can either a) wire up both tube sections together for one triode for the detector and one triode for the audio as separate tubes, or, b) use the two sections each independently as detector and audio all in one envelope (common 1950ish design in the ARRL handbooks).

The most common tube would be the 6SN7, then the

6J5,

76,

37,

27,

56, in order, as I understand it.

The '27s were made in the bazillions during the early AC tube era, but, unfortunately, not a great many have survived. Enough have, though, to allow us to play with them, but not so many as to be careless with them. I have seen very few 56's although they show up from time to time.

The 37's are moderately common. The 76's are fairly common. All of these are standard 5 pin base. For a first regen, I would probably pick the 76 tube for starters, because of its availability. Only if I had the others handy, would I opt to use them.

The 6SN7 and 6J5 are octals. These are very common and were made in great numbers for WWII and early TV consumption. If I wanted a very common type

tube to play with, I would pick these. The 6SN7 works well in regen service and in small low-powered transmitter service (2-3 watt class). Thus, it would serve as a one-type-and-use-it-for-everything tube.

Although 9 pin tubes such as the 12A-7 series (any of them), or the triode 6C4, etc, could be used, I prefer to stick with the larger base sizes in octal, 5 pin, etc., format. My fingers don't like tiny mini tube bases --- things get inadvertently shorted too easily with them. I like gorilla sized wiring so I can read it, directly, and see it, easily, and poke my fingers therein, comfortably. Must be old age or somethin'.

Good Luck.....

73/ZUT DE NA4G/Bob UP

End of GLOWBUGS Digest 344
